

WHAT IS CLAIMED IS:

1. A receptacle comprising:

an insulative socket housing having an opening part through which a plug having dual in-line male contacts is inserted;

5        female contacts which are arrayed in parallel on a pair of inner walls opposed to each other of the opening part and come into contact with the male contacts when the plug is inserted into the opening part; and

10      an insulative shutter which closes a front face of the opening part when the plug is removed and retracts towards a rear face of the opening part by being pushed by the plug when the plug is inserted.

2. The receptacle according to claim 1, wherein the shutter is provided with an elastic member for moving the shutter towards 15      the front face of the opening part when the plug is removed from the opening part.

3. The receptacle according to claim 1, wherein legs of the female contacts is extended from the socket housing to be fixed on a printed circuit board.

20      4. The receptacle according to claim 2, wherein legs of the female contacts is extended from the socket housing to be fixed on a printed circuit board.

5. The receptacle according to any one of claims 1 to 4 further comprising:

25      a shell for covering the socket housing; and

      a pair of soldering tabs for fixing the socket housing onto the printed-circuit board disposed on side parts of the

shell.

6. The receptacle of according to any one of claims 1 to 4 further comprising:

a shell for covering the socket housing, and the shell  
5 is formed of a metal thin plate and comprises a member for partially  
covering the front face of the opening part.

7. The receptacle of according to claim 5: wherein the shell  
is formed of a metal thin plate and comprises a member for partially  
covering the front face of the opening part.

10 8. The receptacle of according to any one of claims 1 to 4 to  
be used as an interface connector of a miniature electronic  
device.

9. The receptacle according to any one of claims 1 to 4, wherein  
the female contacts are arrayed in parallel at regular intervals  
15 of 0.5 mm.

10. A method for connecting a plug to the receptacle according  
to any one of claims 1 to 4, the plug comprising:

an insulative plug housing having a frame part and a header  
part which is formed integrally with the frame part and is  
20 protruded from the frame part to be inserted into the receptacle;

male contacts arrayed in parallel and pairs on the header  
part; and

25 a plug shutter which covers the male contacts arrayed on  
the header part and can be stored in the frame part, and the  
method comprising:

moving the plug shutter towards the rear face of the opening  
part along inner walls of the opening part when the plug is inserted

into the opening part of the receptacle; and  
moving the plug shutter towards the front face of the opening  
part along the inner walls of the opening part when the plug  
is removed from the receptacle.

- 5 11. A plug capable of being connected to the receptacle according  
to any one of claims 1 to 4.